

Title (en)

Energy regeneration control system and method for an internal combustion engine

Title (de)

Verfahren und Vorrichtung zur Energierückgewinnungssteuerung für eine Brennkraftmaschine

Title (fr)

Dispositif et méthode de contrôle de récupération d'énergie pour un moteur à combustion interne

Publication

EP 1350937 A3 20100303 (EN)

Application

EP 03007691 A 20030403

Priority

JP 2002102537 A 20020404

Abstract (en)

[origin: EP1350937A2] A energy regeneration device 30 is provided, which performs energy regeneration by converting kinetic energy of a vehicle into electric energy. The opening of a throttle valve 17 is controlled so as to achieve a minimum difference between the intake pressure and the exhaust pressure when energy regeneration is performed. In order to reduce the pressure difference, an EGR control valve 26 is maintained at a fully-opened position during energy regeneration.

IPC 8 full level

F02D 29/06 (2006.01); **F02M 25/07** (2006.01); **B60W 10/06** (2006.01); **F02D 9/02** (2006.01); **F02D 21/08** (2006.01); **F02D 23/02** (2006.01); **F02D 29/02** (2006.01); **F02D 41/02** (2006.01); **F02D 41/12** (2006.01); **F02D 43/00** (2006.01); **F02D 41/00** (2006.01)

CPC (source: EP)

B60K 6/48 (2013.01); **B60W 10/06** (2013.01); **F02D 9/02** (2013.01); **F02D 29/06** (2013.01); **F02D 41/0005** (2013.01); **B60Y 2400/435** (2013.01); **F02D 41/0055** (2013.01); **F02D 41/12** (2013.01); **F02D 2041/0017** (2013.01); **F02M 26/05** (2016.02); **F02M 26/28** (2016.02); **Y02T 10/40** (2013.01); **Y02T 10/62** (2013.01)

Citation (search report)

- [X] DE 19707868 A1 19980903 - BOSCH GMBH ROBERT [DE]
- [A] DE 19513370 A1 19961010 - BOSCH GMBH ROBERT [DE]
- [A] DE 19620039 A1 19971120 - BOSCH GMBH ROBERT [DE]

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US9534544B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

Designated extension state (EPC)

AL LT LV MK

DOCDB simple family (publication)

EP 1350937 A2 20031008; **EP 1350937 A3 20100303**; JP 2003293819 A 20031015; JP 4186496 B2 20081126

DOCDB simple family (application)

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